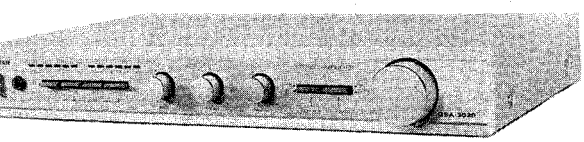
SV2-624B
SV2-624B

Gold Star Audio

SERVICE MANUAL

for service technician



Gold Star Co., Ltd.

STEREO AMPLIFIER

GSA-3030

Component Series

SPECIFICATIONS

This specifications may be changed for improvement of performance without notice.

Output (at load 8Ω)	27W+27W
Distortion	0.05%
Frequency response (at output 12.5W)	15-40000Hz
Signal to noise ratio	
Phono (at input level 5mV)	70 dB
Aux (at input level 500mV)	90 dB
Tuner, Tape	90 dB
Bass (100Hz, at output 0.05W)	±10 dB
Treble (10kHz, at output 0.05W)	±10 dB
Loudness (at Vol. -30 dB)	100 Hz: +8 dB
	10 kHz: +6 dB
Input sensitivity	
Phono	2.5 mV
Aux. Tuner, Tape	200 mV
Input impedance	
Phono	2.5 mV
Aux. Tuner, Tape	200 mV
Input impedance	
Phono	47 KΩ
Aux, Tuner, Tape	350 KΩ
Semi-Conductors	1IC, 31TR, 20 Diode
	1 Rectifier
Power Supply	220 V 50 Hz
Power Consumption	140 W
Weight	5.4 Kg
Dimensions	418(W)x56(H)x 282(D) mm

Printed in Korea Mar, 1982

To service technicion

This service manual contains detailed service information for stereo amplifier Model GSA-3030
Illustration of the model appears on front cover.
Please give attention to next caution.
The followings are the safety servicing guidelines for all audio amplifiers and radio receivers.
Service work should be performed only after you are familiar with all of the following safety guide.
To do otherwise increases the risk of potential hazards and injury to the user.

Safety guide

1. Be sure that all components are positioned in such a way to avoid possibility of adjacent components shorts.
   This is especially important on those chassis which are transported to and from the repair shop.
2. Always replace all protective devices such as insulators and barriers after working on a receiver.
3. Check for frayed insulation on wires including the AC cord. Also check across the-line components for damage and replace if necessary.
4. All fuses and certain resistors and capacitors which are of the flameproof type must be replaced with exact same types to prevent potential fire hazard.
5. After re-assembly of the set always perform an AC-leakage test on the exposed metallic parts of the cabinet such as the knobs, switch, etc. to be sure the set is safe to operate without danger of electrical shock.

To order repair parts

Parts orders must contain:

1. Model Number-found on front cover in this service manual
2. Part Number, Description and Quantity.

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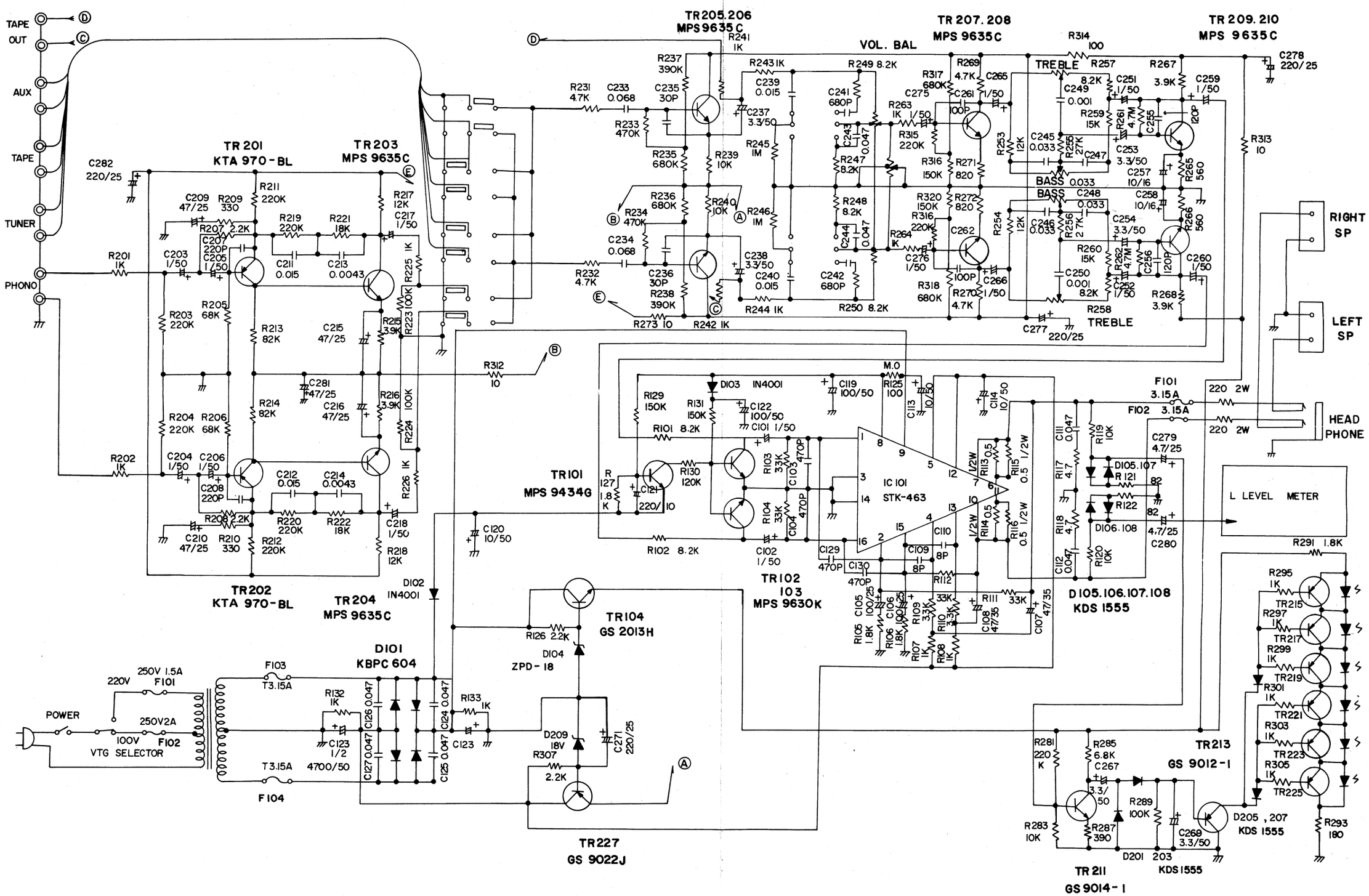
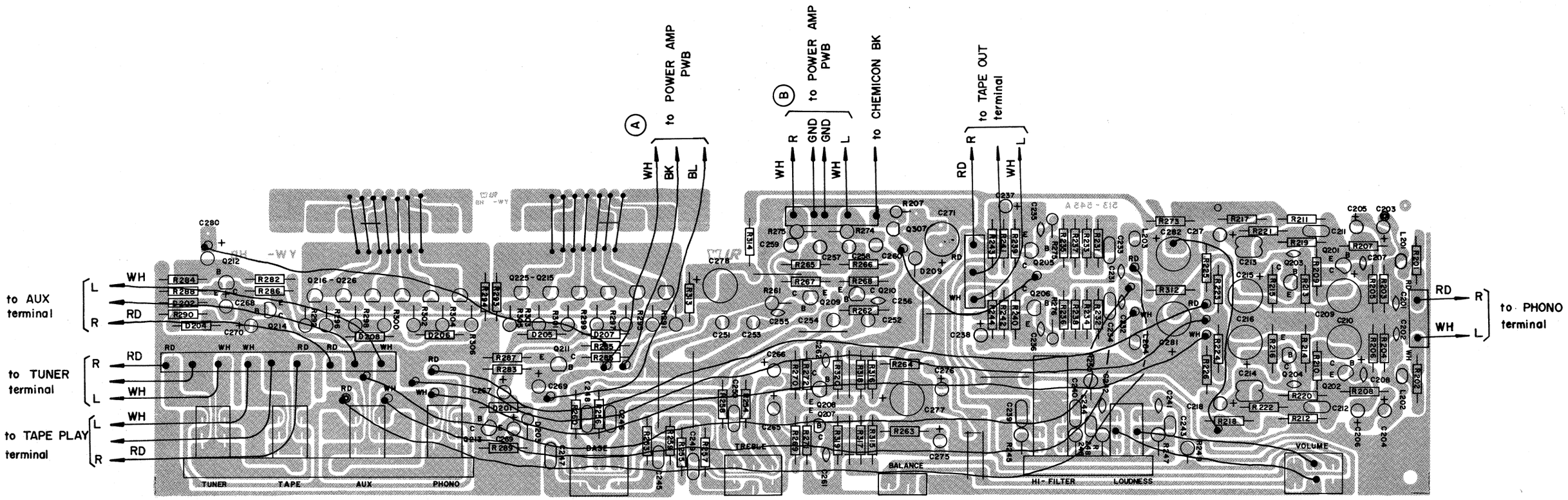
SCHEMATIC DIAGRAM



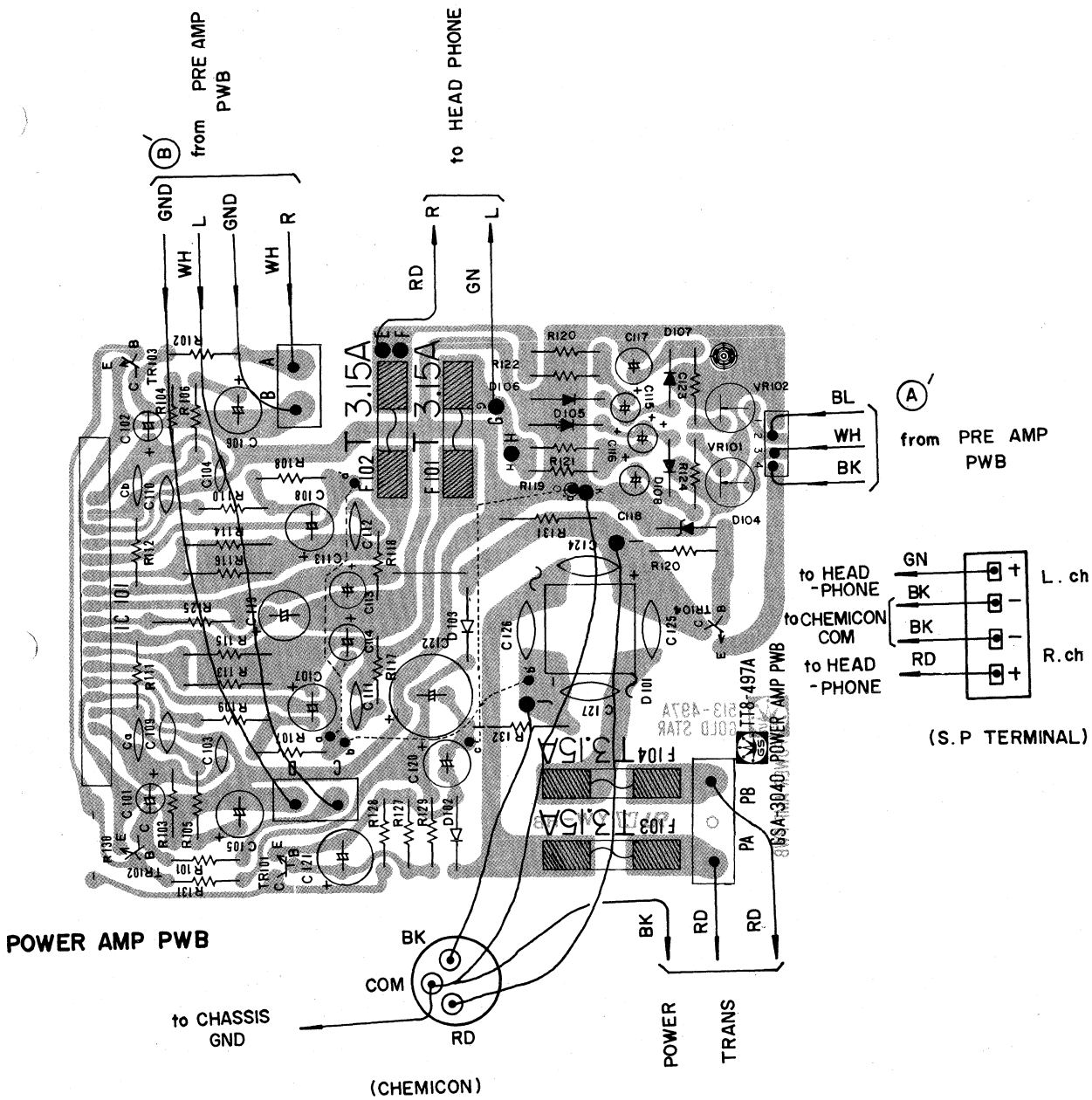
*This schematic diagram may be changed for improvement of performance without notice.

ELECTRICAL PARTS LOCATION AND WIRING

This circuity pattern and printing may be made a little of difference with the set under service.
When servicing the set, please make sure of it.



PRE AMP PWB


POWER AMP PWB
from PRE AMP PWB
GND
WH
L
GND
WH
R
to HEAD PHONE
RD
R
GN
L
F102 T 3.15A
F101 T 3.15A
F104 T 3.15A
F103 T 3.15A
BK
COM
RD
to CHASSIS GND
(CHEMICON)
BK
RD
RD
POWER
TRANS
PB
PA
BSA-3040
ITB-497A
POWER AMP PWB
BL
WH
BK
from PRE AMP PWB
GN
BK
BK
RD
to HEAD -PHONE
to CHEMICON COM
to HEAD -PHONE
L. ch
R. ch
(S.P TERMINAL)

ELECTRICAL PARTS LIST

POWER AMP PWB AY (511-497B)

NO.	SYMBOL NO.	PART NO.	DESCRIPTION	NO.	SYMBOL NO.	PART NO.	DESCRIPTION
1	IC101	668-134A	IC STK-463(AUDIO)	19	R127	RD182J09	R, CARBON FILM 1.8K-J1/4WM
2	TR104	661N027A	TRANSISTOR GOLD STAR GS-2013H	20	R130	RD124J09	R, CARBON FILM 120k-J1/4WM
3	D101	652-611A	DIODE RECT KBPC604 G.I.	21	R129, 131	RD154J09	R, CARBON FILM 150K-J1/4WM
4	D104	654-607D	DIODE, ZENER, ZPD-18, ITT	22	R121, 122	RD820J09	R, CARBON FILM 82-J1/4WM
5	D105, 106, 107, 108	654N417A	DIODE KECT KDS1555	23	C109, 110	CC080D06	C, CERAMIC CC 8PF-D CH 50V
6		586-101A	FUSE HOLDER KS CLIP TYPE 5x20	24	C103, 104, 129, 130	CC471J01	C, CERAMIC CC470PF-J SL 50V
7	F101, 102, 103, 104	585-116B	FUSE 5x20 250V 3.15A NR	25	C111, 112	CK473Z02	C, CERAMIC CK 0.047MF-Z 50V
8	R125	RN101J01	R, METAL FILM 100-J1/2WP	26	C124, 125, 126, 127	CK103D03	C, CERAMIC CK 0.01 MF-D 500V
9	R132, 133	RS102K07	R, METAL, OXIDE 1K-K 2WP	27	C105, 106	CE107D01	C, ELECTROLYTIC 100MF 25V
10	R113, 114, 115, 116	RSR47J01	R, METAL OXIDE 0.47-J1/2WP	28	C107, 108	CE476E01	C, ELECTROLYTIC 47MF 35V
11	R117, 118	RD4R7J09	R, CARBON FILM 4.7-J1/4WM	29	C101, 102	CE105F01	C, ELECTROLYTIC 1MF 50V
12	R119, 120	RD103J09	R, CARBON FILM 10K-J1/4WM	30	C113, 114, 120	CE106F01	C, ELECTROLYTIC 10MF 50V
13	R105, 106	RD182J09	R, CARBON FILM 1.8K-J1/4WM	31	C119, 122	CE107F01	C, ELECTROLYTIC 100MF 50V
14	R107, 108	RD102J09	R, CARBON FILM 1K-J1/4WM	32	C123	CE478E12	C, ELECTROLYTIC 4700MF-35V
15	R101, 102	RD822J09	R, CARBON FILM 8.2K-J1/4WM	33	C121	CE227B01	C, ELECTROLYTIC 220MF 10V
16	R109, 110	RD332J09	R, CARBON FILM 3.3K-J1/4WM	34	FOR POWER IC	255-073A	PLATE HEAT SINK
17	R126	RD222J09	R, CARBON FILM 2.2K-J1/4WM	35	TR101	662-025A	TRANSISTOR, MOTOROLA, MPS9434G
18	R103, 104, 111, 112	RD333J09	R, CARBON FILM 33K-J1/4WM	36	TR102, 103	662-024F	TRANSISTOR MOTOROLA MPS9630K
				37	D102, 103	652-005A	DIODE RECT 1N4001 G, I

PRE AMP PWB AY (511-545A)

NO.	SYMBOL NO.	PART NO.	DESCRIPTION	NO.	SYMBOL NO.	PART NO.	DESCRIPTION
1	TR203, 204, 205, 206, 207, 208	662-606C	TRANSISTOR MOTOROLA MPS9635C	8	D201, 202, 203, 204	654N417A	DIODE KECT KDS1555
				9	D205, 206, 207, 208	654N417A	DIODE KECT KDS1555
2	TR209, 210	662-606C	TRANSISTOR MOTORLA MPS9635C	10	D209	654-607D	DIODE, ZENER, ZPD-18
3	TR201, 202	665-818B	TRANSISTOR KEC KTA970-BL	11	FUNCTION	554-606O	SW PUSH SUF44, P20
4	TR211, 212	661N004D	TRANSISTOR GOLDSTAR GS9014I	12	HI-FILTER LOUDNESS	554-606I	SW, PUSH SUF24S C24 SH
5	TR215, 216, 217, 218, 219, 220, 221	661N002D	TRANSISTOR GOLDSTAR GS9012I	13	VOLUME	611-615B	VR, R GM80E-100KBx2 30KQ
6	TR222, 223, 224, 225, 226, 213, 214	661N002D	TRANSISTOR GOLDSTAR GS9012I	14	BALANCE	611-611A	VR, R. VM10E-100KW 25KQ
7	TR227	661N026A	TRANSISTOR GOLD STAR GS-9022J	15	TREBLE, BASS	611-612A	VR, R. GM7DE-100KBx2 25KQ

NO.	SYMBOL NO.	PART NO	DESCRIPTION
46	R262	RD475J09	R, CARBON FILM 4.7M-J1/4WM
47	R319, 320	RD154J09	R, CARBON FILM 150K-J1/4WM
48	R313, 273, 312	RD100J09	R, CARBON FILM 10-J1/4WM
49	R307	RD222J02	R, CARBON-FILM 2.2K-J 1/4WR
50	R261	RD475J02	R, CARBON FILM 4.7M J1/4WR
51	R287, 288	RD391J09	R, CARBON FILM 390-J1/4WM
52	C239, 240	CQ273M01	C, POLYESTER FILM 0.027MF-M
53	C235, 236	CC300J06	C, CERAMIC CC 30PF-J CH 50V
54	C255, 256	CC220J06	C, CERAMIC CC 22PF-J NP=0
55	C207, 208	CC221J01	C, CERAMIC CC 220PF-J SL 50V
56	C243, 244	CQ473J01	C, POLYESTER).047MF-J 50V
57	C249, 250	CQ102J01	C, POLYESTER 0.001MF-J 50V
58	C213, 214	CQ332M01	C, POLYESTER 0.0033MF-M 50V
59	C211, 212	CQ153J01	C, POLYESTER 0.015MF-J 50V
60	C245, 246, 247, 248	CQ333J01	C, POLYESTER 0.033MF-J 50V
61	C241, 242	CC681K01	C, CERAMIC CC 680PF-K SL 50V
62	C233, 234	CQ683J01	C, POLESTER 0.068MF-J 50V
63	C203, 204, 205, 206 217, 218, 275	CE105F01	C, ELECTROLYTIC IMF 50V
64	C250, 260, 251, 252 265, 266, 276	CE105F01	C ELECTROLYTIC 1MF 50V
65	C237, 238, 253, 254	CE335F01	C, ELECTROLYTIC 3.3MF 50V
66	C257, 258	CE106C01	C, ELECTROLYTIC 10MF-16V
67	C267, 268, 269, 270	CE224F01	C, ELECTROLYTIC 0.22MF 50V
68	C209, 210, 215, 216, 281	CE476D01	C, ELECTROLYTIC 47MF-25V
69	C271, 277, 278, 282	CE227D01	C, ELECTROLYTIC 220MF 25V
70	LEVEL INDICATOR	653-401A	LED NATIONAL LN217RP REC
71	C279, 280	CE475D01	C, ELECTROLYTIC 4.7MF 25V
72	FOR HEADPHONE JACK	RS221J07	R, METAL OXIDE 220-1/2W

NO.	SYMBOL NO.	PART NO.	DESCRIPTION
16	R209, 210	RD331J09	R, CARBON FILM 330-J1/4WM
17	R293, 294	RD181J09	R, CARBON FILM 180-J1/4WM
18	R265, 266	RD561J09	R, CARBON FILM 560-J1/4WM
19	R201, 202, 225, 226, 241, 242, 243	RD102J09	R, CARBON FILM 1K-J1/4WM
20	R244, 263, 264	RD102J09	R, CARBON FILM 1K-J1/4WM
21	R295, 296, 297, 298, 299, 300	RD102J02	R, CARBON-FILM 1K-J1/4WR
22	R301, 302, 303, 304, 305, 306	RD102J02	R, CARBON-FILM 1K-J1/4WR
23	R291, 292	RD182J02	R, CARBON FILM 1.8K-1/4WM J02
24	R207, 208	RD222J09	R, CARBON FILM 2.2K-J1/4WM
25	R267, 268, 215, 216	RD392J09	R, CARBON FILM 3.9K-J1/4WM
26	R247, 248, 249, 250	RD822J02	R, CARBON FILM 8.2K-J1/4WM
27	R231, 232, 269, 270	RD472J09	R, CARBON FILM 4.7K-J1/4WM
28	R285, 286	RD682J09	R, CARBON FILM 6.8K-J1/4WM
29	R259, 260	RD153J09	R, CARBON FILM 15K-J1/4WM
30	R239, 240, 283, 284	RD103J09	R, CARBON FILM 10K-J1/4WM
31	R217, 218, 253, 254	RD123J09	R, CARBON FILM 12K-J1/4WM
32	R271, 272	RD681J09	R, CARBON FILM 680-J1/4WM
33	R257, 258	RD822J09	R, CARBON FILM 8 2K-J1/4WM
34	R221, 222	RD183J09	R, CARBON FILM 18K-J1/4WM
35	R314	RD101J02	R, CARBON FILM 100-J 1/4WR
36	R205, 206	RD683J09	R, CARBON FILM 68K-J1/4WM
37	R223, 224, 289, 290	RD104J09	R, CARBON FILM 100K-J1/4WM
38	R255, 256	RD273J09	R, CARBON FILM 27K-J1/4WM
39	R213, 214	RD823J09	R, CARBON FILM 82K-J1/4WM
40	R203, 204, 211, 212 219, 220	RD224J09	R, CARBON FILM 220K-J1/4WM
41	R281, 282, 315, 316	RD224J09	R, CARBON FILM 220K-J1/4WM
42	R237, 238	RD394J09	R, CARBON FILM 390K-J1/4WM
43	R233, 234	RD474J09	R, CARBON FILM 470K-J1/4WM
44	R235, 236 317, 318	RD684J09	R, CARBON FILM 680K-J1/4WM
45	R245, 246	RD105J02	R, CARBON FILM 1.0M J1/4WM

PARTS LIST FOR EXPLODED VIEW

This parts list is only applicable to Gold star standard. Unless set under service is Gold star standard, be sure that all parts No's are subject to change according to regional characteristic.

NO.	PART NO.	DESCRIPTION	NO.	PART NO.	DESCRIPTION
1	258-645A	PANEL, FRONT	34	322-139A	FOOT
2	273-306A	KNOB, FUNCTION	35		
3	273-641A	KNOB, VOLUME	36	328-600A	BAND, CONDENSER
4	273-279A	CAP, SIDE	37		
5	384-050A	GUIDE, POWER KNOB	38		
6	463-606A	LENS, POWER LED	39	MRC1830J	SCREW, MRC+3x6
7	384-616A	GUIDE, PUSH S/W 4	40	TRQ1843I	SCREW, TRQ+3x14FBK
8	384-615A	'' 2	41	641-642F	POWER TRANS (220V)
9	472-604B	FELT, CABINET	42	WSB2200O	WASHER, SPRING-4
10	273-309A	KNOB, POWER	43	NHA2200J	NUT, NHA-4
11	273-639B	KNOB, PUSH	44	447-602K	CUSHION, TRANS
12	MRC1830J	SCREW, MRC+3x6	45	255-073B	PLATE, HEATSINK
13	MCC1830J	SCREW, MCC+3x6	46	321-267A	BRACKET, FUSE HOLDER
14	313-646A	CHASSIS, BODY	47	583-008A	HOLDER AY, LAMP
15	221-618B	COVER, HIMELON	48		
16	321-719A	BRACKET, PUSH S/W	49		
17	TRQ1830J	SCREW, TRQ+3x6	50	MRC1836I	SCREW, MRC+3x8I
18	221-618A	COVER, HIMELON	51	256-643A	PLATE, BACK (RCA)
19	324-429A	HOLDER, HEADPHONE		256-643C	PLATE, BACK (DIN)
20	321-715A	BRACKET, POWER S/W	52	573-043L	SOCKET AY, RCA(10P)
21	554-610A	S/W, POWER		573-039A	SOCKET AY, DIN
22	322-605B	SUPPORTER,	53	NHA1800J	NUT, NHA1-3
23	MRC1836J	SCREW, MRC+3x8	54	561-002A	CONNECTOR, SPEAKER
24	572-601A	JACK, HEADPHONE	55	552-050A	VOLTAGE SELECTOR
25	219-608A	HOUSING, POWER LED	56	334-007A	STOPPER, VOLTAGE
26	TRQ1836J	SCREW, TRQ+3x8	57		
27			58	681-003D	POWER CORD
28	TRQ1530J	SCREW, TRQ+2.6x6	59	324-348A	HOLDER, CORD SR-5N-4
29	321-722A	BRACKET, PANEL FIXER	60	353-055A	SPECIAL SCREW(GND)
30			61	MRC1839I	SCREW, MRC+3x10 FBK
31			62	TRQ1836I	SCREW, TRQ+3x8 FBK
32	322-605D	SUPPORTER, PWB	63	213-191D	CABINET
33	353-027A	SPECIAL SCREW	64	353-027G	SPECIAL SCREW

EXPLODED VIEW FOR CABINET